Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1626GMS

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * * Welcome to STN International * * * * * * * * * *

NEWS	1		Web Page URLs for STN Seminar Schedule - N. America
NEWS	2		"Ask CAS" for self-help around the clock
NEWS	3	SEP 01	New pricing for the Save Answers for SciFinder Wizard within STN Express with Discover!
NEWS	4	OCT 28	KOREAPAT now available on STN
NEWS	5	NOV 30	PHAR reloaded with additional data
NEWS	6	DEC 01	LISA now available on STN
NEWS	7	DEC 09	12 databases to be removed from STN on December 31, 2004
NEWS	8	DEC 15	MEDLINE update schedule for December 2004
NEWS	9	DEC 17	ELCOM reloaded; updating to resume; current-awareness alerts (SDIs) affected
NEWS	10	DEC 17	COMPUAB reloaded; updating to resume; current-awareness alerts (SDIs) affected
NEWS	11	DEC 17	SOLIDSTATE reloaded; updating to resume; current-awareness alerts (SDIs) affected
NEWS	12	DEC 17	CERAB reloaded; updating to resume; current-awareness alerts (SDIs) affected
NEWS	13	DEC 17	THREE NEW FIELDS ADDED TO IFIPAT/IFIUDB/IFICDB
NEWS	14	DEC 30	EPFULL: New patent full text database to be available on STN
NEWS	15	DEC 30	CAPLUS - PATENT COVERAGE EXPANDED
NEWS	16	JAN 03	No connect-hour charges in EPFULL during January and February 2005
NEWS	17	JAN 26	CA/CAPLUS - Expanded patent coverage to include the Russian Agency for Patents and Trademarks (ROSPATENT)

NEWS EXPRESS	JANUARY 10 CURRENT WINDOWS VERSION IS V7.01a, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 10 JANUARY 2005
NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS INTER	General Internet Information
NEWS LOGIN	Welcome Banner and News Items
NEWS PHONE	Direct Dial and Telecommunication Network Access to STN
NEWS WWW	CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

* * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 08:46:13 ON 07 FEB 2005

=>
Uploading
THIS COMMAND NOT AVAILABLE IN THE CURRENT FILE
Do you want to switch to the Registry File?
Choice (Y/n):
Switching to the Registry File...
Some commands only work in certain files. For example, the EXPAND command can only be used to look at the index in a file which has an index. Enter "HELP COMMANDS" at an arrow prompt (=>) for a list of commands which can be used in this file.

=> FILE REGISTRY

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 08:46:26 ON 07 FEB 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 6 FEB 2005 HIGHEST RN 826990-02-7
DICTIONARY FILE UPDATES: 6 FEB 2005 HIGHEST RN 826990-02-7

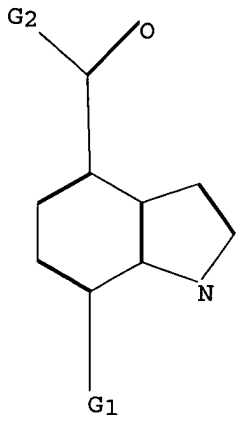
TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

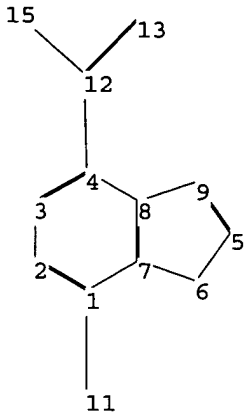
Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=>
Uploading C:\Program Files\Stnexp\Queries\10608949d.str





chain nodes :
11 12 13 15
ring nodes :
1 2 3 4 5 6 7 8 9
chain bonds :
1-11 4-12 12-13 12-15
ring bonds :
1-2 1-7 2-3 3-4 4-8 5-6 5-9 6-7 7-8 8-9
exact/norm bonds :
1-11 5-6 6-7 12-13 12-15
exact bonds :
4-12 5-9 8-9
normalized bonds :
1-2 1-7 2-3 3-4 4-8 7-8
isolated ring systems :
containing 1 :

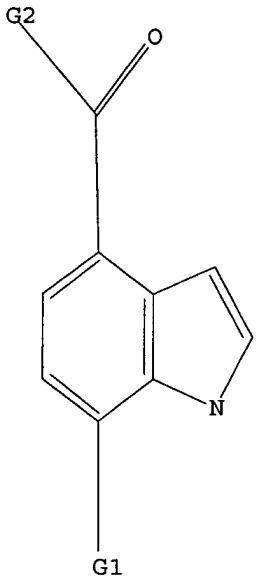
G1:X,Cy,Ak

G2:O,N

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 11:CLASS
12:CLASS 13:CLASS 15:CLASS

L1 STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1 STR



G1 X,Cy,Ak

G2 O,N

Structure attributes must be viewed using STN Express query preparation.

```
=> s l1
SAMPLE SEARCH INITIATED 08:46:48 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -   2757 TO ITERATE

 36.3% PROCESSED    1000 ITERATIONS                                 7 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:        51991 TO    58289
PROJECTED ANSWERS:             122 TO      648

L2             7 SEA SSS SAM L1

=> s l1 sss full
FULL SEARCH INITIATED 08:46:55 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -  56148 TO ITERATE

100.0% PROCESSED   56148 ITERATIONS                             255 ANSWERS
SEARCH TIME: 00.00.03

L3           255 SEA SSS FUL L1

=> FIL CAPLUS
COST IN U.S. DOLLARS                          SINCE FILE      TOTAL
                                                 ENTRY    SESSION
FULL ESTIMATED COST                              161.33     161.54

FILE 'CAPLUS' ENTERED AT 08:47:04 ON 07 FEB 2005
```

FILE COVERS 1907 - 7 Feb 2005 VOL 142 ISS 7
FILE LAST UPDATED: 6 Feb 2005 (20050206/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

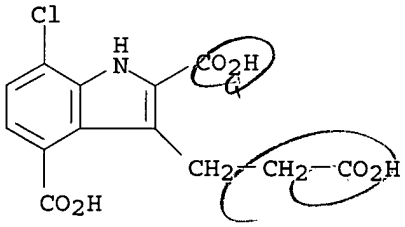
```
=> s l3
L4            26 L3

=> s l4 and py<=2002
      22588576 PY<=2002
L5            20 L4 AND PY<=2002

=> d scan

L5    20 ANSWERS   CAPLUS  COPYRIGHT 2005 ACS on STN
CC    37 (Heterocyclic Compounds (One Hetero Atom))
TI    Structure of melanins and melanogenesis. III. Structure of sepiomelanin
IT    Spectra, infrared
         (of 3- and 5-methyl pyrrole-2,3,5-tricarboxylates)
IT    Sepiomelanoprotein
IT    Sepiomelanin
         (structure of)
IT    37174-47-3, Indole, 5,6,7-trimethoxy-
         (derivs.)
IT    452-86-8, Pyrocatechol, 4-methyl-   634-97-9, Pyrrole-2-carboxylic acid
      931-03-3, Pyrrole-3-carboxylic acid   937-26-8, Pyrrole-2,4-dicarboxylic
      acid   937-27-9, Pyrrole-2,5-dicarboxylic acid   3131-52-0,
      Indole-5,6-diol   4790-08-3, Indole-2-carboxylic acid, 5,6-dihydroxy-
      90800-62-7, Indole-4,7-dicarboxylic acid, 5,6-dihydroxy-
         (from sepiomelanin decomposition)
IT    39034-33-8, Pyrrole-2,3,5-tricarboxylic acid, 5-methyl ester   53691-54-6,
      Pyrrole-2,3,5-tricarboxylic acid, 3-methyl ester
         (isolation from methylated sepiomelanin)
IT    58532-21-1, Indole-2,3-dione, 5,6,7-trimethoxy   90945-69-0,
      Indole-2,3-dione, 5-hydroxy-6,7-dimethoxy-   93187-34-9,
      Δ3,α-Indolineacetonitrile, 5,6,7-trimethoxy-2-oxo-
      95704-83-9, Indole-2-carboxylic acid, 5,6-bis(benzyloxy)-, methyl ester
      101813-10-9, [Δ2,2'-Biindoline]-3,3'-dione, 5,5',6,6',7,7'-
      hexamethoxy-
         (preparation of)

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):end
```

```
=> d hit str
'STR' IS NOT A VALID FORMAT FOR FILE 'CAPLUS'

The following are valid formats:

ABS --------- GI and AB
ALL --------- BIB, AB, IND, RE
APPS -------- AI, PRAI
BIB --------- AN, plus Bibliographic Data and PI table (default)
CAN --------- List of CA abstract numbers without answer numbers
CBIB -------- AN, plus Compressed Bibliographic Data
DALL -------- ALL, delimited (end of each field identified)
DMAX -------- MAX, delimited for post-processing
FAM --------- AN, PI and PRAI in table, plus Patent Family data
FBIB -------- AN, BIB, plus Patent FAM
IND --------- Indexing data
IPC --------- International Patent Classifications
MAX --------- ALL, plus Patent FAM, RE
PATS -------- PI, SO
SAM --------- CC, SX, TI, ST, IT
SCAN -------- CC, SX, TI, ST, IT (random display, no answer numbers;
              SCAN must be entered on the same line as the DISPLAY,
              e.g., D SCAN or DISPLAY SCAN)
STD --------- BIB, IPC, and NCL

IABS -------- ABS, indented with text labels
IALL -------- ALL, indented with text labels
IBIB -------- BIB, indented with text labels
IMAX -------- MAX, indented with text labels
ISTD -------- STD, indented with text labels

OBIB -------- AN, plus Bibliographic Data (original)
OIBIB ------- OBIB, indented with text labels

SBIB -------- BIB, no citations
SIBIB ------- IBIB, no citations

HIT --------- Fields containing hit terms
HITIND ------ IC, ICA, ICI, NCL, CC and index field (ST and IT)
              containing hit terms
HITRN ------- HIT RN and its text modification
HITSTR ------ HIT RN, its text modification, its CA index name, and
              its structure diagram
HITSEQ ------ HIT RN, its text modification, its CA index name, its
              structure diagram, plus NTE and SEQ fields
FHITSTR ----- First HIT RN, its text modification, its CA index name, and
              its structure diagram
FHITSEQ ----- First HIT RN, its text modification, its CA index name, its
              structure diagram, plus NTE and SEQ fields
KWIC -------- Hit term plus 20 words on either side
OCC --------- Number of occurrence of hit term and field in which it occurs

To display a particular field or fields, enter the display field
codes.  For a list of the display field codes, enter HELP DFIELDS at
an arrow prompt (=>).  Examples of formats include: TI; TI,AU; BIB,ST;
TI,IND; TI,SO.  You may specify the format fields in any order and the
information will be displayed in the same order as the format
specification.

All of the formats (except for SAM, SCAN, HIT, HITIND, HITRN, HITSTR,
```

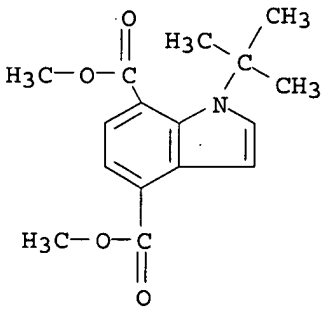
FHITSTR, HITSEQ, FHITSEQ, KWIC, and OCC) may be used with DISPLAY ACC to view a specified Accession Number.
ENTER DISPLAY FORMAT (BIB):end

=> d l5 ibib abs hitstr tot

L5 ANSWER 1 OF 20 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2002:861062 CAPLUS
DOCUMENT NUMBER: 139:197300
TITLE: Product class 13: indole and its derivatives
AUTHOR(S): Joule, J. A.
CORPORATE SOURCE: Department of Chemistry, University of Manchester, Manchester, M13 9PL, UK
SOURCE: Science of Synthesis (**2001**), 10, 361-652
CODEN: SSCYJ9
PUBLISHER: Georg Thieme Verlag
DOCUMENT TYPE: Journal; General Review
LANGUAGE: English
AB A review of preparation of indoles and its derivs. Covered reactions include cyclization, ring transformation, aromatization and substituent modifications. Subclasses covered include 1H-indol-1-ols, 1,3-dihydro-2H-indol-2-ones, and 1,2-dihydro-3H-indol-3-ones.
IT **36800-67-6P 74809-27-1P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(review of preparation of indoles and analogs thereof via cyclization, ring transformation, aromatization and substituent modifications)
RN 36800-67-6 CAPLUS
CN 1H-Indole-2,4-dicarboxylic acid, 3-(2-carboxyethyl)-7-chloro- (9CI) (CA INDEX NAME)



RN 74809-27-1 CAPLUS
CN 1H-Indole-4,7-dicarboxylic acid, 1-(1,1-dimethylethyl)-, dimethyl ester (9CI) (CA INDEX NAME)



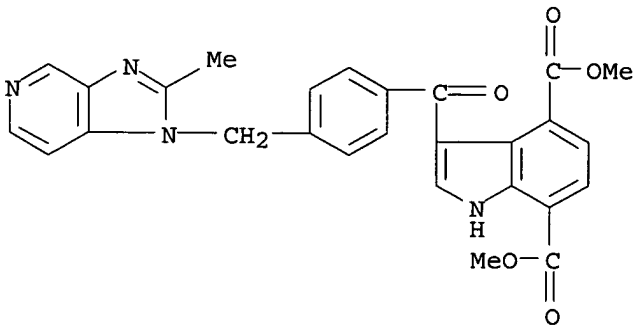
REFERENCE COUNT: 1348 THERE ARE 1348 CITED REFERENCES AVAILABLE FOR

THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

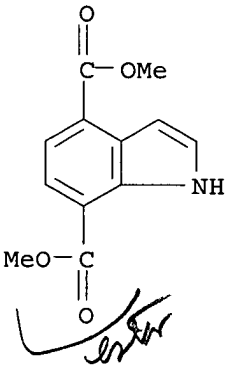
L5 ANSWER 2 OF 20 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1998:58 CAPLUS
DOCUMENT NUMBER: 128:57082
TITLE: Discovery and Evaluation of a Series of 3-Acylindole Imidazopyridine Platelet-Activating Factor Antagonists
AUTHOR(S): Curtin, Michael L.; Davidsen, Steven K.; Heyman, H. Robin; Garland, Robert B.; Sheppard, George S.; Florjancic, Alan S.; Xu, Lianhong; Carrera, George M.,Jr.; Steinman, Douglas H.; Trautmann, Jeff A.; Albert, Daniel H.; Magoc, Terrance J.; Tapang, Paul; Rhein, David A.; Conway, Richard G.; Luo, Gongjin; Denissen, Jon F.; Marsh, Kennan C.; Morgan, Douglas W.; Summers, James B.
CORPORATE SOURCE: Immunosciences Research Area, Pharmaceutical Products Division, Abbott Laboratories, Abbott Park, IL, 60064-3500, USA
SOURCE: Journal of Medicinal Chemistry (**1998**), 41(1), 74-95
CODEN: JMCMAR; ISSN: 0022-2623
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Studies conducted with the goal of discovering a second-generation platelet-activating factor (PAF) antagonist have identified a novel class of potent and orally active antagonists which have high aqueous solubility and long duration of action in animal models. The compds. arose from the combination of the lipophilic indole portion of Abbott's first-generation PAF antagonist ABT-299 with the methylimidazopyridine heterocycle moiety of British Biotechnol.'s BB-882 and possess the pos. attributes of both of these clin. candidates. Structure-activity relationship (SAR) studies indicated that modification of the indole and benzoyl spacer of lead compound 1-(N,N-Dimethylcarbamoyl)-6-(4-fluorophenyl)-3-{4-[(1H-2-methylimidazo[4,5-c]pyrid-1-yl)methyl]benzoyl}indole gave analogs that were more potent, longer-lived, and bioavailable and resulted in the identification of 1-(N,N-dimethylcarbamoyl)-4-ethynyl-3-{3-fluoro-4-[(1H-2-methylimidazo[4,5-c]pyrid-1-yl)methyl]benzoyl}indole hydrochloride (ABT-491) which has been evaluated extensively and is currently in clin. development.

IT **170498-16-5P**
RL: BAC (Biological activity or effector, except adverse); BPR (Biological process); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); PROC (Process); USES (Uses)
(acylindole imidazopyridine PAF antagonist preparation and evaluation)
RN 170498-16-5 CAPLUS
CN 1H-Indole-4,7-dicarboxylic acid, 3-[4-[(2-methyl-1H-imidazo[4,5-c]pyridin-1-yl)methyl]benzoyl]-, dimethyl ester (9CI) (CA INDEX NAME)



IT **170499-96-4**, 4,7-Bis(methoxycarbonyl)indole
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction; acylindole imidazopyridine PAF antagonist preparation and evaluation)
RN 170499-96-4 CAPLUS
CN 1H-Indole-4,7-dicarboxylic acid, dimethyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 47 THERE ARE 47 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 3 OF 20 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1997:805722 CAPLUS
DOCUMENT NUMBER: 128:34682
TITLE: Preparation of indole derivatives as cell protective agents
INVENTOR(S): Yamamoto, Ichiro; Itoh, Manabu; Shimojo, Masato; Yumiya, Yasunobu; Mukaihira, Takafumi; Akada, Yasushige
PATENT ASSIGNEE(S): Mochida Pharmaceutical Co., Ltd., Japan
SOURCE: PCT Int. Appl., 219 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9745410	A1	19971204	WO 1997-JP1828	19970529 <--
W: CA, JP, KR, US				

RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE

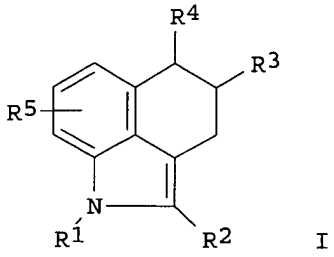
TW 430660	B	20010421	TW 1997-86107186		19970527 <--
CA 2228268	AA	19971204	CA 1997-2228268		19970529 <--
EP 858996	A1	19980819	EP 1997-924254		19970529 <--
EP 858996	B1	20041027			

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI

AT 280758	E	20041115	AT 1997-924254		19970529
US 6040331	A	20000321	US 1998-11260		19980130 <--
PRIORITY APPLN. INFO.:			JP 1996-158985	A	19960530
			JP 1996-332764	A	19961128
			WO 1997-JP1828	W	19970529

OTHER SOURCE(S): MARPAT 128:34682

GI



I

AB The title compds. (I; R1 = H, CO2H, alkoxycarbonyl, etc.; R2 = halo, C1-4 alkyl or alkoxy, etc.; R3, R4 = H, NR6R7; R5 = H, halo, C1-4 alkyl, etc.; R6, R7 = H, Ph, CHO, alkyl, etc.) are prepared I are useful as analgetic agents and cell protective agents for prevention and treatment of diseases accompanied by the denaturation, retraction or death of nerve cells. Thus, compound (II; X = :O) (preparation given) was treated with NH4OAc and NaBH3CN to give the title compound II (X = NH2), which at 1.0 μg/mL showed 51% inhibitory activity against death of nerve cells.

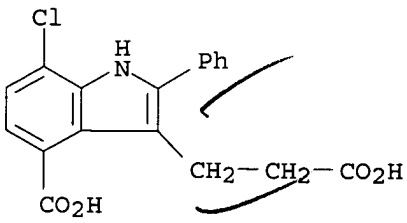
IT **199664-63-6P**

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of indole derivs. as cell protective agents)

RN 199664-63-6 CAPLUS

CN 1H-Indole-3-propanoic acid, 4-carboxy-7-chloro-2-phenyl- (9CI) (CA INDEX NAME)



L5 ANSWER 4 OF 20 CAPLUS COPYRIGHT 2005 ACS on STN

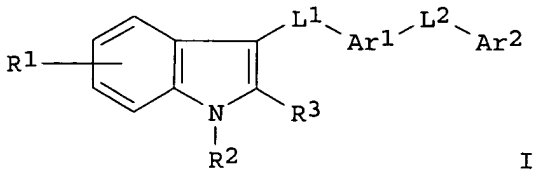
ACCESSION NUMBER: 1996:119185 CAPLUS

DOCUMENT NUMBER: 124:317157
TITLE: Platelet activating factor antagonists: imidazopyridine indoles
INVENTOR(S): Summers, James B., Jr.; Davidsen, Steven K.; Curtin, Michael L.; Heyman, H. Robin; Sheppard, George S.; Xu, Lianhong; Carrera, George M., Jr.; Garland, Robert B.
PATENT ASSIGNEE(S): Abbott Laboratories, USA
SOURCE: U.S., 59 pp. Cont.-in-part of U.S. Ser. No. 324,631.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

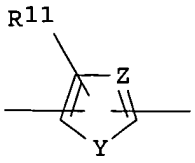
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
US 5486526	A	19960123	US 1994-347528	19941205	<--
CA 2176247	AA	19950622	CA 1994-2176247	19941208	<--
WO 9516687	A1	19950622	WO 1994-US14112	19941208	<--
W: AU, CA, JP, KR					
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE					
AU 9513036	A1	19950703	AU 1995-13036	19941208	<--
AU 690620	B2	19980430			
EP 734386	A1	19961002	EP 1995-904287	19941208	<--
EP 734386	B1	20020206			
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE					
AT 212992	E	20020215	AT 1995-904287	19941208	<--
PT 734386	T	20020731	PT 1995-904287	19941208	<--
ES 2173171	T3	20021016	ES 1995-904287	19941208	<--

PRIORITY APPLN. INFO.:			
US 1993-168564	B2	19931216	
US 1994-324631	A2	19941018	
US 1994-347528	A	19941205	
WO 1994-US14112	W	19941208	

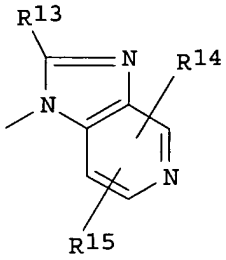
OTHER SOURCE(S): MARPAT 124:317157
GI



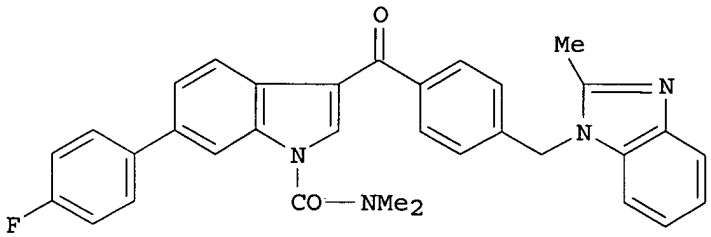
I



II



III

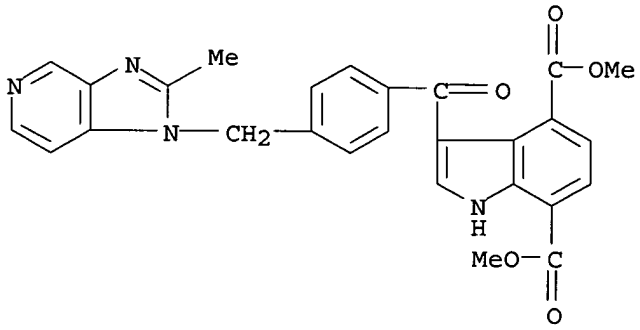


AB The present invention relates to compds. of formula I wherein: R1 = one or more of the groups independently selected from, e.g., H, halo, OH, cyano; R2 is selected from the group consisting of, e.g., H, alkyl of one to 6 C atoms; R3 is selected from the group consisting of H and alkyl of one to six C atoms; L1 = e.g., CO, COCH2NR4 where R4 = e.g., H, alkyl of one to six C atoms; Ar1 is radical II where Y is O, S, or CH:CH, Z is N or CH, R11 = e.g., H, alkyl of one to six C atoms; L2 is selected from, e.g., a valence bond, (un)substituted straight-chain alkylene of one to six C atoms; Ar2 is selected from, e.g., substituted benzimidazol-1-yl, imidazopyridine group III where R13 = e.g., alkyl of one to six C atoms, alkenyl of two to six C atoms; R14 and R15 are independently selected from, e.g., H, alkyl of one to six C atoms, alkenyl of two to six C atoms; and the pharmaceutically acceptable salts thereof which are potent antagonists of PAF and are useful in the treatment of PAF-related disorders including asthma, shock, respiratory distress syndrome, acute inflammation, transplanted organ rejection, gastrointestinal ulceration, allergic skin diseases, delayed cellular immunity, parturition, fetal lung maturation, and cellular differentiation. Thus, e.g., carbamoylation of 6-(4-fluorophenyl)-3-{4-[(1H-2-methylbenzimidazolyl)methyl]benzoyl}indole (preparation given) with dimethylcarbamoyl chloride afforded 1-N,N-dimethylcarbamoyl-6-(4-fluorophenyl)-3-{4-[(1H-2-methylbenzimidazolyl)methyl]benzoyl}indole (IV) which exhibited Ki = 56 nM for inhibition of specific [3H]C18-PAF binding.

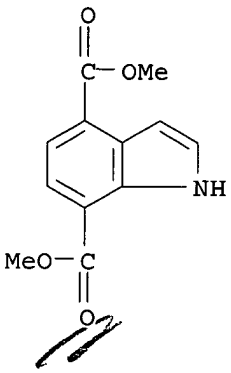
IT **170498-16-5P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(imidazopyridine indoles as platelet activating factor antagonists)

RN 170498-16-5 CAPLUS

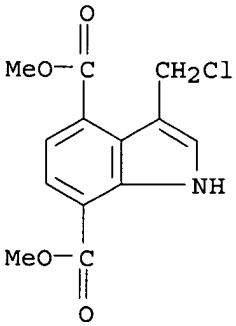
CN 1H-Indole-4,7-dicarboxylic acid, 3-[4-[(2-methyl-1H-imidazo[4,5-c]pyridin-1-yl)methyl]benzoyl]-, dimethyl ester (9CI) (CA INDEX NAME)



IT **170499-96-4P**, 4,7-Bis(methoxycarbonyl)indole **175675-75-9P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(imidazopyridine indoles as platelet activating factor antagonists)
RN 170499-96-4 CAPLUS
CN 1H-Indole-4,7-dicarboxylic acid, dimethyl ester (9CI) (CA INDEX NAME)



RN 175675-75-9 CAPLUS
CN 1H-Indole-4,7-dicarboxylic acid, 3-(chloromethyl)-, dimethyl ester (9CI) (CA INDEX NAME)

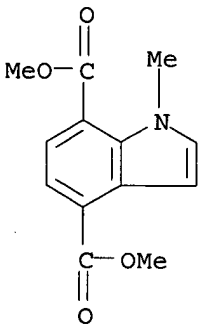


L5 ANSWER 5 OF 20 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1996:104544 CAPLUS

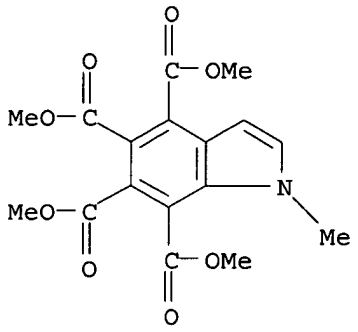
DOCUMENT NUMBER: 124:260071
TITLE: Theoretical study of the reactions of 1-methyl-2-vinylpyrrole with methyl propiolate and with dimethyl acetylenedicarboxylate
AUTHOR(S): Domingo, Luis R.; Jones, R. Alan; Picher, M. Teresa; Sepulveda-Arques, Jose
CORPORATE SOURCE: Departament de Quimica Organica, Universitat de Valencia, Dr Moliner 50, 46100-Burjassot, Valencia, Spain
SOURCE: THEOCHEM (**1996**), 362(2), 209-13
CODEN: THEODJ; ISSN: 0166-1280
PUBLISHER: Elsevier
DOCUMENT TYPE: Journal
LANGUAGE: English
AB A theor. study of the transition structures for the reactions of 1-methyl-2-vinylpyrrole 1 with Me propiolate (MP) and with di-Me acetylenedicarboxylate (DMAD) indicates that, for this vinyl system, the factor controlling the different courses of the reaction is the lower activation energy for the formation of the transition state in the second cycloaddn. with MP, compared to that with DMAD.

IT **74825-03-9 175400-78-9**
RL: FMU (Formation, unclassified); PEP (Physical, engineering or chemical process); PRP (Properties); FORM (Formation, nonpreparative); PROC (Process)
(MO study of Diels-Alder reaction 1-methyl-2-vinylpyrrole with Me propiolate and with di-Me acetylenedicarboxylate)

RN 74825-03-9 CAPLUS
CN 1H-Indole-4,7-dicarboxylic acid, 1-methyl-, dimethyl ester (9CI) (CA INDEX NAME)



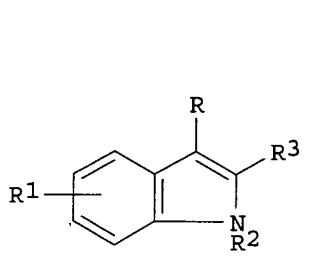
RN 175400-78-9 CAPLUS
CN 1H-Indole-4,5,6,7-tetracarboxylic acid, 1-methyl-, tetramethyl ester (9CI) (CA INDEX NAME)



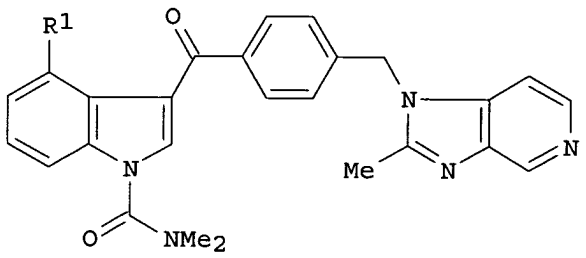
L5 ANSWER 6 OF 20 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1995:928154 CAPLUS
DOCUMENT NUMBER: 123:340121
TITLE: Preparation of 3-[(imidazopyridylalkyl)benzoyl]indoles and analogs as platelet activating factor antagonists
INVENTOR(S): Summers, James B., Jr.; Davidsen, Steven K.; Curtin, Michael L.; Heyman, H. Robin; Sheppard, George S.; Xu, Lianhong; Carrera, George M., Jr.; Garland, Robert B.
PATENT ASSIGNEE(S): Abbott Laboratories, USA
SOURCE: PCT Int. Appl., 160 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE	
WO 9516687	A1	19950622	WO 1994-US14112		19941208	<--
W: AU, CA, JP, KR						
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE						
US 5486525	A	19960123	US 1994-347528		19941205	<--
CA 2176247	AA	19950622	CA 1994-2176247		19941208	<--
AU 9513036	A1	19950703	AU 1995-13036		19941208	<--
AU 690620	B2	19980430				
EP 734386	A1	19961002	EP 1995-904287		19941208	<--
EP 734386	B1	20020206				
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE						
AT 212992	E	20020215	AT 1995-904287		19941208	<--
PRIORITY APPLN. INFO.:			US 1993-168564	A	19931216	
			US 1994-324631	A	19941018	
			US 1994-347528	A	19941205	
			WO 1994-US14112	W	19941208	

OTHER SOURCE(S): MARPAT 123:340121
GI



I



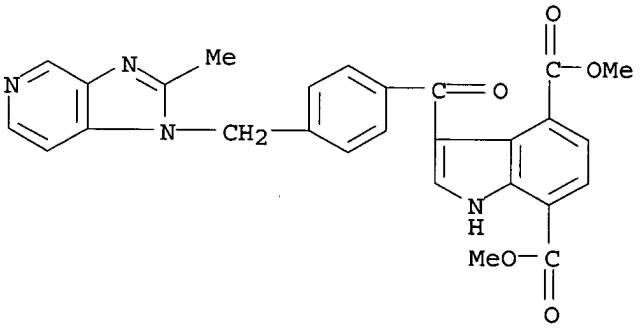
II

AB Title compds. [I; R = Z1Z2Z3R4; R1 = H, halo, alkyl, alkoxy, etc.; R2 = H, (carboxy)alkyl, aminoalkyl, etc.; R3 = H, alkyl; R4 = (hetero)anellated imidazolyl, etc.; Z1 = CO, CONH, C(:NNH2), etc.; Z2 = bond, phenylene, heteroarylene, etc.; Z3 = bond, (un)substituted alkylene] were prepared Thus, 4-bromoindole was converted in 4 steps to I (R = COC6H4CH2NH2, R1 = 4-Br, R2 = CONMe2, R3 = H) which was N-alkylated by 4-ethoxy-3-nitropyridine and the product converted in 2 steps to title compound II (R1 = Br). The latter was alkylated by Me3SnC.tplbond.CSiMe3 to give, after deprotection, II (R1 = C.tplbond.CH) which had Ki of 0.6nM for platelet activating factor inhibition in vitro.

IT **170498-16-5P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of 3-[(imidazopyridylalkyl)benzoyl]indoles and analogs as platelet activating factor antagonists)

RN 170498-16-5 CAPLUS

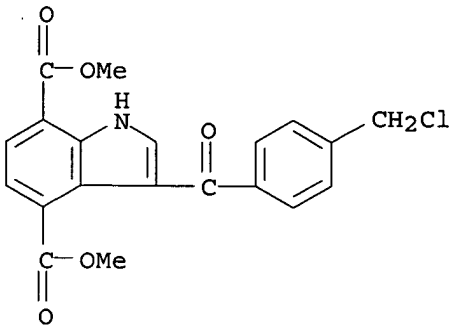
CN 1H-Indole-4,7-dicarboxylic acid, 3-[4-[(2-methyl-1H-imidazo[4,5-c]pyridin-1-yl)methyl]benzoyl]-, dimethyl ester (9CI) (CA INDEX NAME)



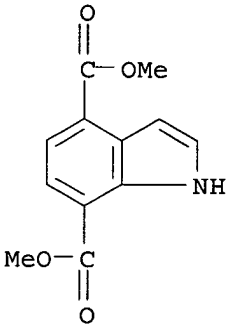
IT **170499-57-7P 170499-96-4P**, Dimethyl indole-4,7-dicarboxylate
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of 3-[(imidazopyridylalkyl)benzoyl]indoles and analogs as platelet activating factor antagonists)

RN 170499-57-7 CAPLUS

CN 1H-Indole-4,7-dicarboxylic acid, 3-[4-(chloromethyl)benzoyl]-, dimethyl ester (9CI) (CA INDEX NAME)



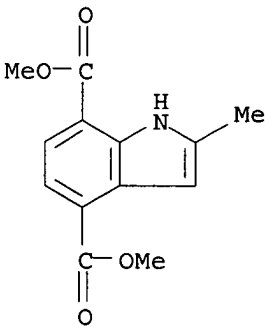
RN 170499-96-4 CAPLUS
CN 1H-Indole-4,7-dicarboxylic acid, dimethyl ester (9CI) (CA INDEX NAME)



L5 ANSWER 7 OF 20 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1995:264059 CAPLUS
DOCUMENT NUMBER: 122:133016
TITLE: Synthesis of pyrano[4,3-b]azepines by [4 + 2] cycloaddition of photochemically generated 3-alkoxycarbonyl-1,2-didehydroazepines with enol ethers
AUTHOR(S): Tueckmantel, Werner
CORPORATE SOURCE: Pharmazeutisch-Chem. Inst., Univ. Heidelberg, Heidelberg, D-69120, Germany
SOURCE: Liebigs Annalen der Chemie (**1994**), (12), 1165-71
CODEN: LACHDL; ISSN: 0170-2041
PUBLISHER: VCH
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 122:133016
AB 3-Alkoxycarbonyl-1,2-didehydroazepines, generated by photolysis of alkyl 2-azidobenzoates, undergo a hetero-[4 + 2] cycloaddn. (stepwise or concerted) with ketone-derived enol ethers to form intensely colored, paratropic 6,8-dialkoxy-8,9-dihydropyrano[4,3-b]azepines, which contain the unusual 3-azaheptafulvene partial structure. Other derivs. of 2-azidobenzoic acid as well as aldehyde-derived enol ethers, other classes of olefins, phenol ethers, and furans are unreactive although 2-methoxynaphthalene undergoes demethylation to produce Me 2-(2-naphthyloxy)-3H-azepine-3-carboxylate. Acid-catalyzed hydrolysis of

the title compds. produces 2-(acylmethylene)-2,3-dihydro-1H-azepine-3-carboxylates and indoles; catalytic hydrogenation generates a tetrahydro derivative, and diastereomeric tricarbonylation complexes are formed with Fe2(CO)9 at the conjugated diene moiety. An intensely colored byproduct of the photolysis reaction is identified as the first known derivative of 3,3'-diazaheptafulvalene.

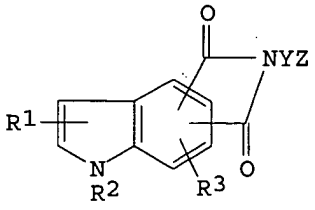
IT **160777-53-7P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 160777-53-7 CAPLUS
CN 1H-Indole-4,7-dicarboxylic acid, 2-methyl-, dimethyl ester (9CI) (CA INDEX NAME)



L5 ANSWER 8 OF 20 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1994:106973 CAPLUS
DOCUMENT NUMBER: 120:106973
TITLE: Preparation of indoledicarboxymides as antitumor agents
INVENTOR(S): Nagai, Takashi; Myokan, Isao; Funaki, Takashi; Nomura, Yoko; Mizutani, Masatoshi; Hori, Takako
PATENT ASSIGNEE(S): Toyama Chemical Co Ltd, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 25 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 05202048	A2	19930810	JP 1992-38615	19920129 <--
JP 3178880	B2	20010625		
PRIORITY APPLN. INFO.:			JP 1992-38615	19920129

OTHER SOURCE(S): MARPAT 120:106973
GI



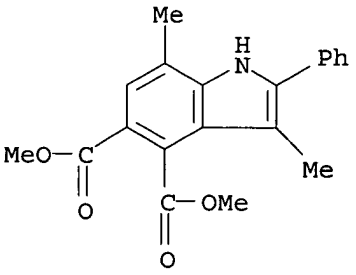
I

AB The title compds. I [R1 = H, (substituted) alkyl, alkenyl, aryl, etc.; R2 = H, (substituted) alkyl, acyl, etc.; R3 = H, halo, (substituted) alkyl, cycloalkyl, etc.; Y = bond, alkylene; Z = halo, NR4R5, etc.; R4, R5 = H, (substituted) alkyl, cycloalkyl, acyl, etc.; or NR4R5 = (substituted) N-containing heterocyclic ring] were prepared Condensation of 3,7-dimethyl-2-phenylindole-4,5-dicarboxylic acid anhydride with N,N-dimethylethylenediamine in xylene gave N-(2-dimethylaminoethyl)-3,7-dimethyl-2-phenyl-indole-4,5-dicarboxyimide. The title compds. in vitro had MIC values of 1.56-6.25 μg/mL against tumor HeLA S3 cells.

IT **152294-66-1P 152294-67-2P 152294-68-3P**
152294-69-4P 152294-70-7P 152294-71-8P
152294-72-9P 152294-78-5P 152294-79-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, in preparation of antitumor agent)

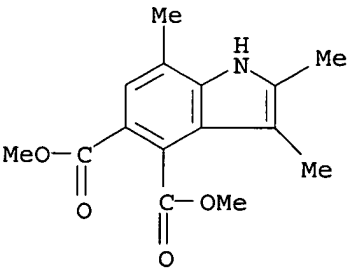
RN 152294-66-1 CAPLUS

CN 1H-Indole-4,5-dicarboxylic acid, 3,7-dimethyl-2-phenyl-, dimethyl ester (9CI) (CA INDEX NAME)

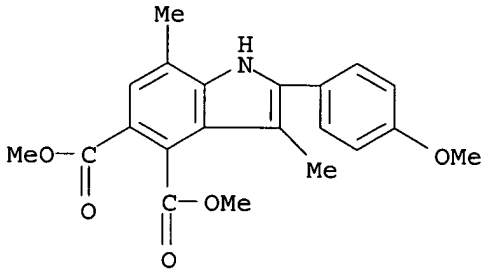


RN 152294-67-2 CAPLUS

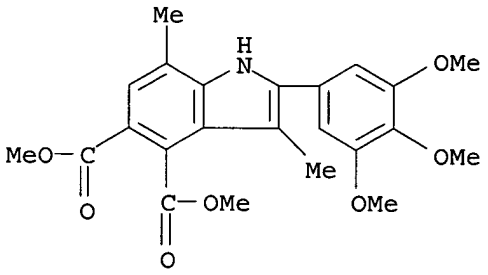
CN 1H-Indole-4,5-dicarboxylic acid, 2,3,7-trimethyl-, dimethyl ester (9CI) (CA INDEX NAME)



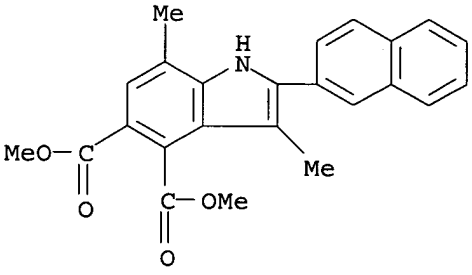
RN 152294-68-3 CAPLUS
CN 1H-Indole-4,5-dicarboxylic acid, 2-(4-methoxyphenyl)-3,7-dimethyl-, dimethyl ester (9CI) (CA INDEX NAME)



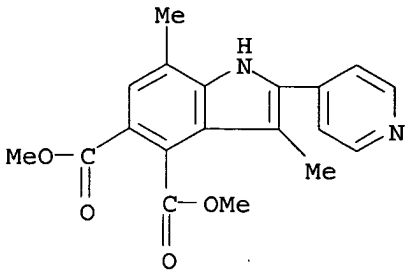
RN 152294-69-4 CAPLUS
CN 1H-Indole-4,5-dicarboxylic acid, 3,7-dimethyl-2-(3,4,5-trimethoxyphenyl)-, dimethyl ester (9CI) (CA INDEX NAME)



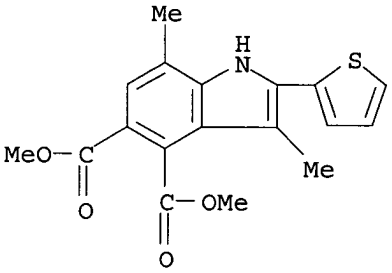
RN 152294-70-7 CAPLUS
CN 1H-Indole-4,5-dicarboxylic acid, 3,7-dimethyl-2-(2-naphthalenyl)-, dimethyl ester (9CI) (CA INDEX NAME)



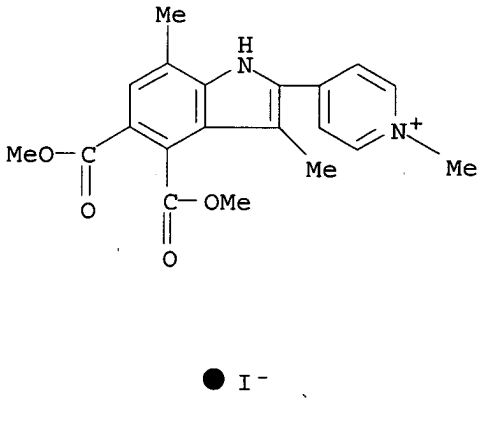
RN 152294-71-8 CAPLUS
CN 1H-Indole-4,5-dicarboxylic acid, 3,7-dimethyl-2-(4-pyridinyl)-, dimethyl ester (9CI) (CA INDEX NAME)



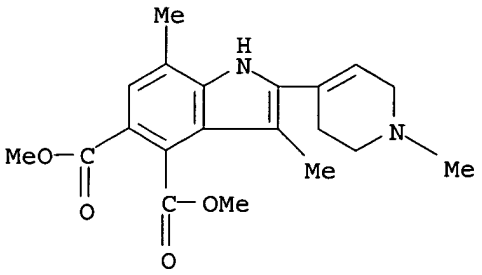
RN 152294-72-9 CAPLUS
CN 1H-Indole-4,5-dicarboxylic acid, 3,7-dimethyl-2-(2-thienyl)-, dimethyl ester (9CI) (CA INDEX NAME)



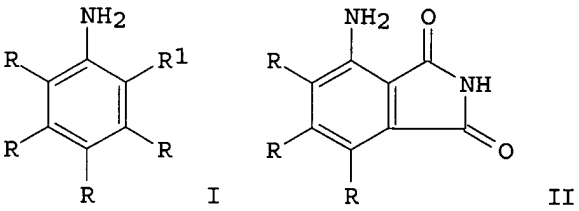
RN 152294-78-5 CAPLUS
CN Pyridinium, 4-[4,5-bis(methoxycarbonyl)-3,7-dimethyl-1H-indol-2-yl]-1-methyl-, iodide (9CI) (CA INDEX NAME)



RN 152294-79-6 CAPLUS
CN 1H-Indole-4,5-dicarboxylic acid, 3,7-dimethyl-2-(1,2,3,6-tetrahydro-1-methyl-4-pyridinyl)-, dimethyl ester (9CI) (CA INDEX NAME)

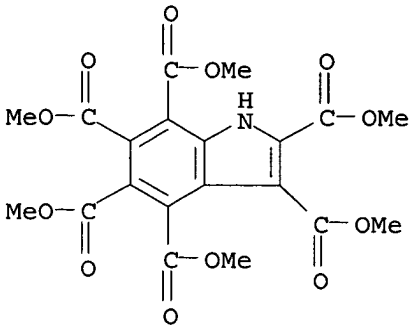


L5 ANSWER 9 OF 20 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1992:151256 CAPLUS
DOCUMENT NUMBER: 116:151256
TITLE: Copper(II) in organic synthesis. IX. The copper(II)-catalyzed Michael reaction as a route to polysubstituted benzene derivatives
AUTHOR(S): Desimoni, Giovanni; Invernizzi, Anna Gamba; Quadrelli, Paolo; Righetti, Pier Paolo
CORPORATE SOURCE: Dip. Chim. Org., Univ. Pavia, Pavia, I-27100, Italy
SOURCE: Gazzetta Chimica Italiana (**1991**), 121(10), 483-5
CODEN: GCITA9; ISSN: 0016-5603
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 116:151256
GI

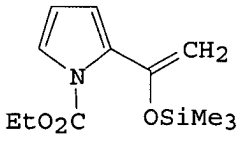


AB Cyclization of RC.tplbond.CR (R = CO2Me) with R1CH2CN (R1 = CN, CO2Me) in dioxane catalyzed by Cu2(OAc)4, gave 20-41% anilines I, whereas H2NCOCH2CN gave 16% II.

IT **139286-25-2P**
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(preparation and spectra of)
RN 139286-25-2 CAPLUS
CN 1H-Indole-2,3,4,5,6,7-hexacarboxylic acid, hexamethyl ester (9CI) (CA INDEX NAME)



L5 ANSWER 10 OF 20 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1991:583012 CAPLUS
DOCUMENT NUMBER: 115:183012
TITLE: [4+2] Cycloaddition reaction of N-(ethoxycarbonyl)-2-[1-(trimethylsiloxy)vinyl]pyrrole with acetylenic carboxylates
AUTHOR(S): Ohno, Masatomi; Shimizu, Sadahiro; Eguchi, Shoji
CORPORATE SOURCE: Fac. Eng., Nagoya Univ., Nagoya, 464, Japan
SOURCE: Heterocycles (**1991**), 32(6), 1199-202
CODEN: HTCYAM; ISSN: 0385-5414
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 115:183012
GI



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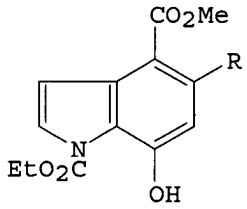


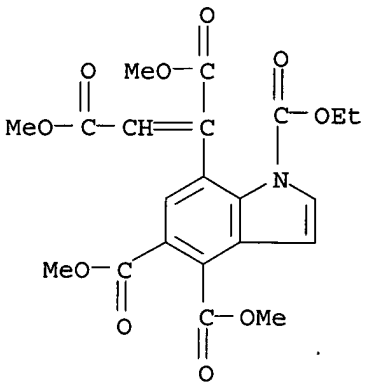
II

AB The title reaction resulted in the formation of functionalized indoles through rearomatization via ene reaction followed by elimination or via competitive air oxidation Under an atmospheric of oxygen the latter process predominated to give majorly 7-hydroxy substituted indoles. Thus, the reactions of the title pyrrole I with RC.tplbond.CCO2Me (R = H, CO2Me) in the presence of air or oxygen gave hydroxyindoles II.

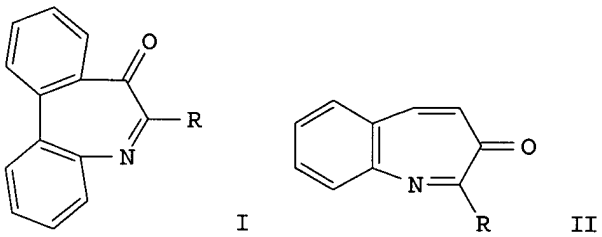
IT **136497-17-1P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 136497-17-1 CAPLUS

CN 1H-Indole-1,4,5-tricarboxylic acid, 7-[3-methoxy-1-(methoxycarbonyl)-3-oxo-1-propenyl]-, 1-ethyl 4,5-dimethyl ester (9CI) (CA INDEX NAME)



L5 ANSWER 11 OF 20 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1986:424169 CAPLUS
DOCUMENT NUMBER: 105:24169
TITLE: Syntheses and properties of 2-amino-3-oxo-3H-azepines
AUTHOR(S): Eicher, Theophil; Kruse, Alfred
CORPORATE SOURCE: Fachber. 14 Org. Chem., Univ. Saarlandes, Saarbruecken, D-6600/11, Fed. Rep. Ger.
SOURCE: Synthesis (**1985**), (6-7), 612-19
CODEN: SYNTBF; ISSN: 0039-7881
DOCUMENT TYPE: Journal
LANGUAGE: German
OTHER SOURCE(S): CASREACT 105:24169
GI



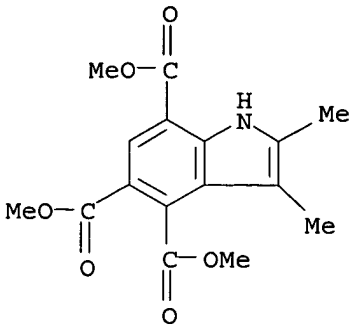
I II

AB The aminodibenzazepinones I [R = piperdino, morpholino, NEt2, NCHMe2)2, NHCHMe2, NHPh] were obtained in 45-77% yield by treating 5-tosyl-6,7-dihydro-5H-dibenz[b,d]azepin-7-one with EtO2CCH2CH2P+Ph3 Br3-. The aminobenzazepinones II (R = NEt2, NHCHMe2) were similarly prepared The 3-benzazepin-1-one III was obtained from the 4,5-dihydro derivative by bromination-dehydrobromination. The chemical and spectroscopic properties of I-III are discussed.

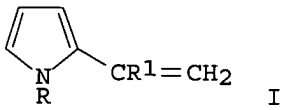
IT **102913-14-4P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 102913-14-4 CAPLUS

CN 1H-Indole-4,5,7-tricarboxylic acid, 2,3-dimethyl-, trimethyl ester (9CI) (CA INDEX NAME)



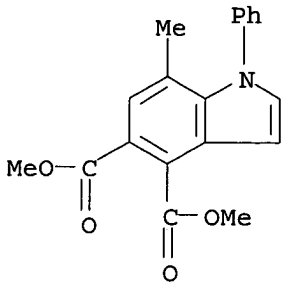
L5 ANSWER 12 OF 20 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1985:131299 CAPLUS
DOCUMENT NUMBER: 102:131299
TITLE: Pyrrole studies. Part 28. The effect of steric hindrance upon the reaction of 2-vinylpyrroles with dimethyl acetylenedicarboxylate
AUTHOR(S): Jones, R. Alan; Saliente, Teresa Aznar; Arques, Jose Sepulveda
CORPORATE SOURCE: Sch. Chem. Sci., Univ. East Anglia, Norwich, NR4 7JT, UK
SOURCE: Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1972-1999) (**1984**), (11), 2541-3
CODEN: JCPRB4; ISSN: 0300-922X
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 102:131299
GI



I

AB The reactions of the vinylpyrroles I (R = Me, R1 = H, Me, CMe3, Ph; R = Ph, R1 = H, Me) with MeO2CC.tplbond.CCO2Me (II) in CHCl3 were examined at 20 and 60°. Steric interaction between R and R1 destabilizes the cisoid conformation of I, thereby inhibiting (π4 + π2)-cycloaddn. reactions. Bulky N-substituents also sterically inhibited the Michael addition of II at the 5-position of the ring.

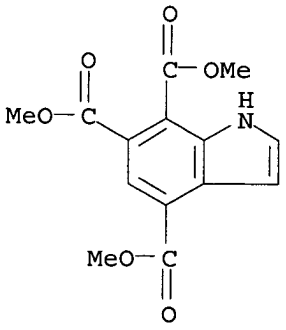
IT **94633-41-7P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 94633-41-7 CAPLUS
CN 1H-Indole-4,5-dicarboxylic acid, 7-methyl-1-phenyl-, dimethyl ester (9CI) (CA INDEX NAME)



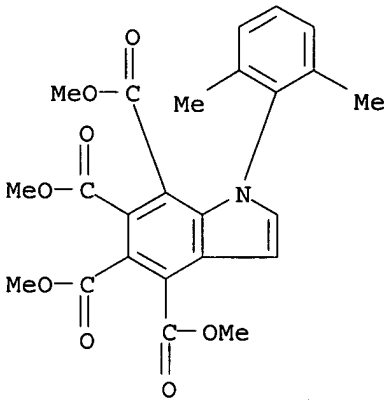
L5 ANSWER 13 OF 20 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1983:452768 CAPLUS
DOCUMENT NUMBER: 99:52768
TITLE: Diels-Alder reactions of vinyl derivatives of five-membered monoheterocyclic compounds
AUTHOR(S): Noland, Wayland E.; Lee, Chang Kiu; Bae, Sun Kun; Chung, Bong Yul; Hahn, Chi Sun; Kim, Keun Jae
CORPORATE SOURCE: Sch. Chem., Univ. Minnesota, Minneapolis, MN, 55455, USA
SOURCE: Journal of Organic Chemistry (**1983**), 48(15), 2488-91
CODEN: JOCEAH; ISSN: 0022-3263
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 99:52768

AB Vinylpyrroles having electron-withdrawing substituents react with dienophiles to give [4 + 2] π adducts while the furan and thiophene analogs do not due to the greater electron-releasing ability of the N atom in the pyrrole. The s-cis conformation of the (1H-pyrrol-2-yl)maleate derivs. is an important factor in their cycloaddn. reaction.

IT **86012-84-2P 86012-89-7P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 86012-84-2 CAPLUS
CN 1H-Indole-4,6,7-tricarboxylic acid, trimethyl ester (9CI) (CA INDEX NAME)



RN 86012-89-7 CAPLUS
CN 1H-Indole-4,5,6,7-tetracarboxylic acid, 1-(2,6-dimethylphenyl)-, tetramethyl ester (9CI) (CA INDEX NAME)

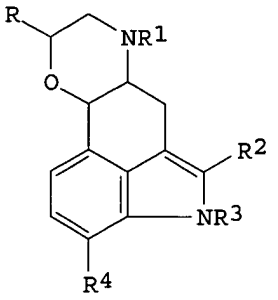


L5 ANSWER 14 OF 20 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1981:425087 CAPLUS
DOCUMENT NUMBER: 95:25087
TITLE: Indolobenzoxazines
INVENTOR(S): Jones, James H.
PATENT ASSIGNEE(S): Merck and Co., Inc., USA
SOURCE: U.S., 9 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

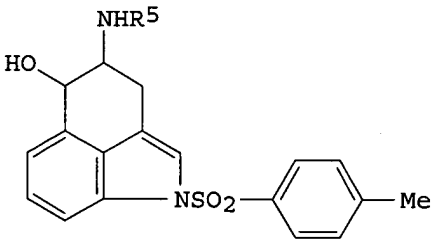
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4238486	A	19801209	US 1979-96966	19791123 <--
EP 33767	A1	19810819	EP 1980-107206	19801120 <--
EP 33767	B1	19840627		
R: AT, BE, CH, DE, FR, GB, IT, LU, NL, SE				
AT 8144	E	19840715	AT 1980-107206	19801120 <--
DK 8004975	A	19810524	DK 1980-4975	19801121 <--
AU 8064594	A1	19810528	AU 1980-64594	19801121 <--
AU 539028	B2	19840906		
ES 497064	A1	19820401	ES 1980-497064	19801121 <--
ZA 8007295	A	19820630	ZA 1980-7295	19801121 <--
JP 56087583	A2	19810716	JP 1980-164768	19801125 <--
JP 02027358	B4	19900615		

PRIORITY APPLN. INFO.: US 1979-96966 A 19791123
EP 1980-107206 A 19801120

GI



I



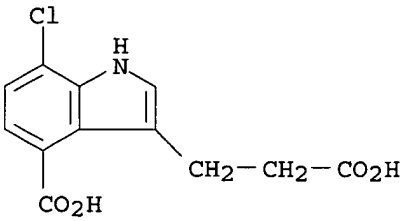
II

AB The indolobenzoxazines I (R = H, alkyl, aryl; R1 = H, alkyl, aralkyl, cycloalkyl, alkenyl; R2 = H, halo, alkyl; R3 = H, alkyl, aralkyl; R4 = H, halo, alkyl, hydroxy, alkoxy) were prepared Thus, the benzindole II (R5 = H) was treated with ClCH2COCl to give II (R5 = ClCH2CO), which was cyclized followed by LiAlH4 reduction to give I (R-R4 = H). At 50-500 mg/kg I were antihypertensive, and at 20-100 mg/kg had antiparkinson and prolactin-inhibiting activity.

IT **36800-76-7**
RL: RCT (Reactant); RACT (Reactant or reagent)
(cyclization of)

RN 36800-76-7 CAPLUS

CN 1H-Indole-3-propanoic acid, 4-carboxy-7-chloro- (9CI) (CA INDEX NAME)



L5 ANSWER 15 OF 20 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1981:3909 CAPLUS

DOCUMENT NUMBER: 94:3909

TITLE: Electrophilic reactions of dimethyl acetylenedicarboxylate with a cyclic dienamine: solvent influence upon the competitive formation of [4+2]-, [2+2]- and Michael type adducts

AUTHOR(S): Eberbach, Wolfgang; Carre, Jean Claude

CORPORATE SOURCE: Chem. Lab., Univ. Freiburg, Freiburg, D-7800, Fed. Rep. Ger.

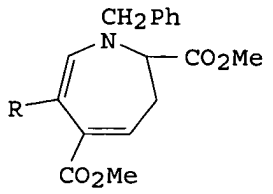
SOURCE: Tetrahedron Letters (**1980**), 21(12), 1145-8
CODEN: TELEAY; ISSN: 0040-4039

DOCUMENT TYPE: Journal

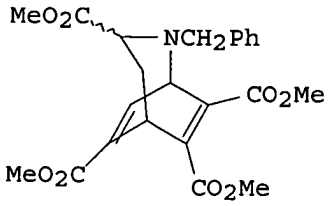
LANGUAGE: English

OTHER SOURCE(S): CASREACT 94:3909

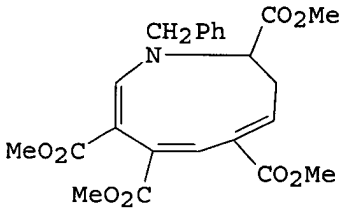
GI



I



II



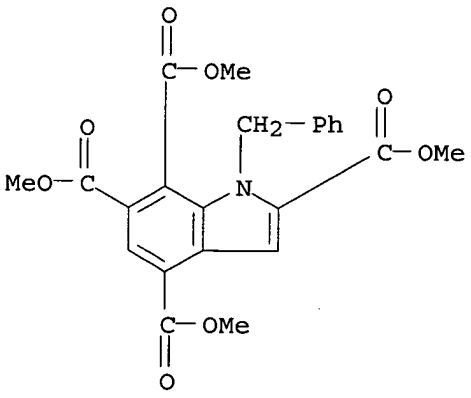
III

AB The azepine I (R = H) reacted with MeO2CC.tplbond:CCO2Me in CCl4, MeCN, and MeOH to give the adducts II, III, and I [R = (E)-MeO2CCH:C(CO2Me)], resp. The mechanism and effect of solvent are discussed.

IT **75817-91-3P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 75817-91-3 CAPLUS

CN 1H-Indole-2,4,6,7-tetracarboxylic acid, 1-(phenylmethyl)-, tetramethyl ester (9CI) (CA INDEX NAME)



L5 ANSWER 16 OF 20 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1980:639132 CAPLUS

DOCUMENT NUMBER: 93:239132

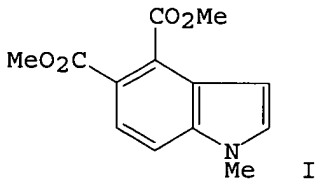
TITLE: Pyrrole studies. 22. [4π + 2π] Cycloaddition reactions with vinylpyrroles

AUTHOR(S): Jones, R. Alan; Marriott, Michael T. P.; Rosenthal, W. Philip; Sepulveda Arques, Jose

CORPORATE SOURCE: Sch. Chem. Sci., Univ. East Anglia, Norwich/Norfolk, NR4 7TJ, UK

SOURCE: Journal of Organic Chemistry (**1980**), 45(22),

4515-19
CODEN: JOCEAH; ISSN: 0022-3263
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 93:239132
GI



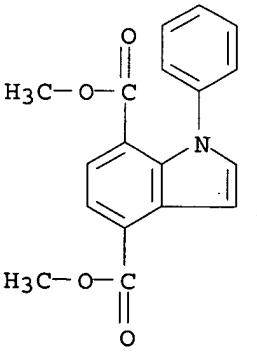
I

AB Diels-Alder reaction of 2- and 3-vinylpyrroles with electron-deficient dienophiles gave 4 dihydro- and 9 tetrahydroindoles, which underwent sigmatropic H migration leading to aromatization of the 5-membered ring. Thus, cycloaddn. of 1-methyl-2-vinylpyrrole with MeO2CC.tplbond.CCO2Me gave 67% di-Me 1-methyl-6,7-dihydroindole-4,5-dicarboxylate, which was aromatized by refluxing with 2,3-dichloro-5,6-dicyanoquinone in dry C6H6 0.5 h to give 25% di-Me 1-methylindole-4,5-dicarboxylate (I). Among the 7 other indoles similarly prepared were di-Me 1-phenylindole-4,7-dicarboxylate and Me 1-tert-butylindole-7-carboxylate.

IT **74809-24-8P 74809-27-1P 74825-03-9P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

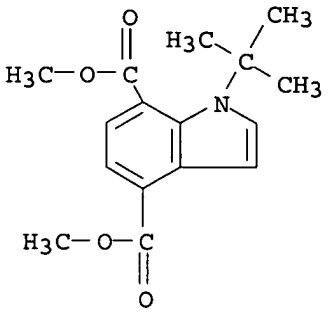
RN 74809-24-8 CAPLUS

CN 1H-Indole-4,7-dicarboxylic acid, 1-phenyl-, dimethyl ester (9CI) (CA INDEX NAME)

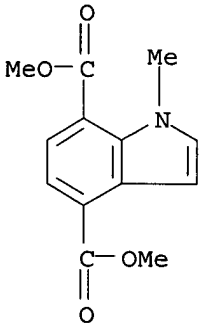


RN 74809-27-1 CAPLUS

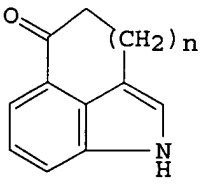
CN 1H-Indole-4,7-dicarboxylic acid, 1-(1,1-dimethylethyl)-, dimethyl ester (9CI) (CA INDEX NAME)



RN 74825-03-9 CAPLUS
CN 1H-Indole-4,7-dicarboxylic acid, 1-methyl-, dimethyl ester (9CI) (CA INDEX NAME)



L5 ANSWER 17 OF 20 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1980:586626 CAPLUS
DOCUMENT NUMBER: 93:186626
TITLE: Preparative methods for ergoline synthons: Uhle's ketone and the C-homo analog
AUTHOR(S): Ponticello, G. S.; Baldwin, J. J.; Lumma, P. K.; McClure, D. E.
CORPORATE SOURCE: Merck Sharp and Dohme Res. Lab., Dep. Med. Chem., West Point, PA, 19486, USA
SOURCE: Journal of Organic Chemistry (**1980**), 45(21), 4236-8
CODEN: JOCEAH; ISSN: 0022-3263
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



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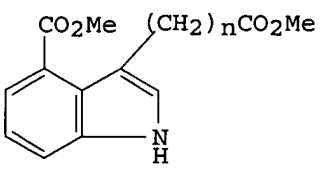


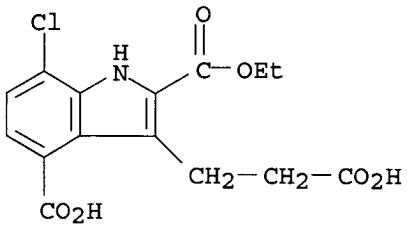
II

AB Preparative methods are described for the synthesis of the tricyclic indolo ketones I (n = 1, 2); these compds. are useful intermediates for the construction of ergolines and related ring systems. The synthetic strategy involves a Dieckmann cyclization-decarboxylation sequence from the diesters II (n = 2,3).

IT **36800-68-7P 74724-99-5P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and dechlorination of)

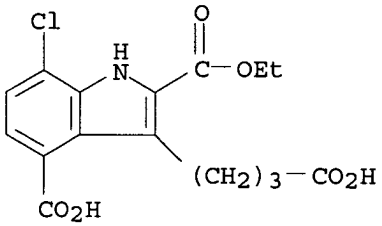
RN 36800-68-7 CAPLUS

CN 1H-Indole-2,4-dicarboxylic acid, 3-(2-carboxyethyl)-7-chloro-, 2-ethyl ester (9CI) (CA INDEX NAME)



RN 74724-99-5 CAPLUS

CN 1H-Indole-2,4-dicarboxylic acid, 3-(3-carboxypropyl)-7-chloro-, 2-ethyl ester (9CI) (CA INDEX NAME)



L5 ANSWER 18 OF 20 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1972:405270 CAPLUS

DOCUMENT NUMBER: 77:5270

TITLE: 1,3,4,5-Tetrahydrobenz[c,d]indoles and related compounds. I. New synthesis of 3,4-dihydrobenz[c,d]indol-5(1H)-one (Uhle's ketone)

AUTHOR(S): Bowman, R. E.; Goodburn, T. G.; Reynolds, A. A.

CORPORATE SOURCE: Res. Dev. Div., Parke Davis and Co., Pontypool, UK

SOURCE: Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1972-1999) (**1972**), (9-10), 1121-3
CODEN: JCPRB4; ISSN: 0300-922X

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 77:5270

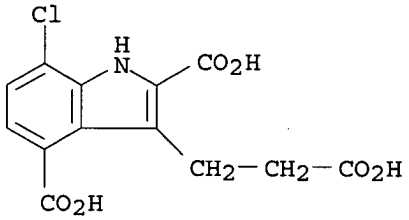
GI For diagram(s), see printed CA Issue.

AB -Carboxy-2-chlorobenzenediazonium chloride reacted with Et 2-oxocyclopentanecarboxylate followed by hydrolysis to give 1-Et H 2-oxohexanedioate (5-carboxy-2-chlorophenyl)hydrazone (I). Treatment of I

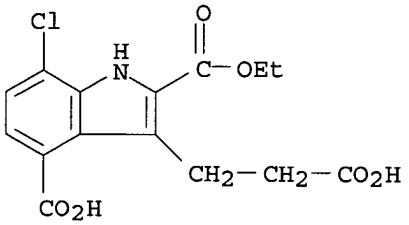
with BF3.AcOH in AcOH at 90° gave 81% 4-carboxy-7-chloro-2-(ethoxycarbonyl)indole-3-propionic acid, which was converted in 67% overall yield to 4-carboxyindole-3-propionic acid (II) by sequential hydrolysis, hydrogenolysis, and thermal decarboxylation. II was readily converted to Uhle's ketone (III) by standard methods.

IT **36800-67-6P 36800-68-7P 36800-76-7P 36800-77-8P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

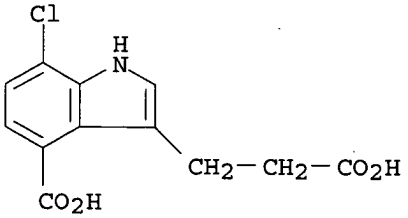
RN 36800-67-6 CAPLUS
CN 1H-Indole-2,4-dicarboxylic acid, 3-(2-carboxyethyl)-7-chloro- (9CI) (CA INDEX NAME)



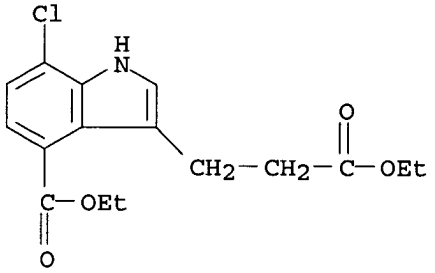
RN 36800-68-7 CAPLUS
CN 1H-Indole-2,4-dicarboxylic acid, 3-(2-carboxyethyl)-7-chloro-, 2-ethyl ester (9CI) (CA INDEX NAME)



RN 36800-76-7 CAPLUS
CN 1H-Indole-3-propanoic acid, 4-carboxy-7-chloro- (9CI) (CA INDEX NAME)



RN 36800-77-8 CAPLUS
CN 1H-Indole-3-propanoic acid, 7-chloro-4-(ethoxycarbonyl)-, ethyl ester (9CI) (CA INDEX NAME)



L5 ANSWER 19 OF 20 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1964:38666 CAPLUS
DOCUMENT NUMBER: 60:38666
ORIGINAL REFERENCE NO.: 60:6810b-g
TITLE: Structure of melanins and melanogenesis. III. Structure of sepiomelanin
AUTHOR(S): Piattelli, M.; Fattorusso, E.; Magno, S.; Nicolaus, R. A.
CORPORATE SOURCE: Univ. Naples
SOURCE: Tetrahedron (**1963**), 19(12), 2061-72
CODEN: TETRAB; ISSN: 0040-4020
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable

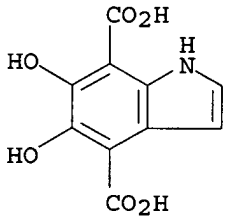
AB cf. CA 57, 16532f. Sepiomelanin (I) on alkali fusion gave 5,6-dihydroxyindole (II), 4-methylpyrocatechol (III), 5,6-dihydroxyindole-2-carboxylic acid (IV), pyrrole-2-carboxylic acid (V), pyrrole-3-carboxylic acid (VI), pyrrole-2,4-dicarboxylic acid (VII), pyrrole-2,5-dicarboxylic acid (VIII), and 5,6-dihydroxyindole-4,7-dicarboxylic acid. Similar alkaline fusion of 5,6-dihydroxyindolemelanin gave II, pyrocatechol, V, VI, VII, and VIII. Analogous treatment of 2,2'-dihydroxybiphenyl gave o-HOC6H4CO2H, PhOH, and o-MeC6H4OH. Alc. (200 ml.) containing 3 g. 5,6-bis(benzyloxy)indole-2-carboxylic acid (IX) hydrogenated at 95°/100 atmospheric 48 hrs. with 400 mg. 10% Pd-C gave 1.6 g. IV, m. 230° (dilute AcOH). Methylated I(30 g.) oxidized with H2O2 in AcOH gave 5-carbomethoxypyrrole-2,3-dicarboxylic acid (X), m. 246-7°, 3-carbomethoxypyrrole-2,5-dicarboxylic acid (XI), m. 249-51° (H2O), and H2C(CO2H)2, m. 135-6°, by different isolation techniques. The isolation of XI further proved that indole units with a CO2H group in position 2 are present in I. The presence of these units shows that a carboxylated intermediate, probably dopachrome, partakes in the formation of the polymer. Whether these units retain an aminochrome structure in the polymer or rearrange to units of dihydroxyindole type was determined by preparation of a melanin by enzymic oxidation of IV with tyrosinase to give melanin(XII). XII (50 mg.) oxidized 10 days at 20° with 3.0 ml. 1:1 AcOH 36% H2O2 gave pyrrole-2,3,5-tricarboxylic acid (XIII), pyrrole-2,3,4,5-tetracarboxylic acid (XIV), glycine, and aspartic acid. IX (1 g.) in Et2O treated with CH2N2 in Et2O gave 2-carbomethoxy-5,6-bis-(benzyloxy) indole, m. 149-50°, which was hydrogenated to 2-carbomethoxy-5,6-dihydroxyindole (XV), m. 255-60°. XV (550 mg.) in 10 ml. 2N K2CO3 oxidized with 60 ml. 3% aqueous KMnO4 gave 30 mg. X, m. 246-7°. A suspension of 100 mg. 2,3,5-tricarbomethoxypyrrole in 9 ml. 0.1N NaOH kept 14 hrs. and the clear solution acidified with concentrated HCl gave 25 mg. XI, m. 249-51° (H2O), giving a red color with diazotized p-H2NC6H4SO3H. XII (248 mg.), dried at 80° over P2O5 in vacuo 8 hrs., was decarboxylated according to P.

and N. (CA 55, 11433h) to give 64 mg. $BaCO_3$, equivalent to 5.9% XII. The decarboxylated XII (50 mg.) oxidized with 3% aqueous $KMnO_4$ gave XIII and XIV. Titration of the CO_2H groups of XII gave a neutralization equivalent 180 [theoretical for $(C_9H_3NO_4)_x$ 189]. Since it has been shown that the CO_2H groups at position 2 and those derived from partial degradation of some indole nuclei during melanogenesis are eliminated by heating I, it was assumed that in the natural pigment the carboxylated units have a dopachrome structure. I oxidized with H_2O_2-AcOH gave cysteic acid, taurine, aspartic acid, and glycine. The presence of cysteic acid shows that the bond between the prosthetic part and the protein in sepiomelanoprotein is effected by the intervention of the SH groups of cysteine mols. Taurine is probably an artifact originating by decarboxylation of cysteine residues. Aspartic acid and glycine may be derived from the nonprotein moiety of the pigment since they also were obtained by H_2O_2-AcOH oxidation of IV.

IT **90800-62-7**, Indole-4,7-dicarboxylic acid, 5,6-dihydroxy-
(from sepiomelanin decomposition)

RN 90800-62-7 CAPLUS

CN Indole-4,7-dicarboxylic acid, 5,6-dihydroxy- (7CI) (CA INDEX NAME)



L5 ANSWER 20 OF 20 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1963:59659 CAPLUS

DOCUMENT NUMBER: 58:59659

ORIGINAL REFERENCE NO.: 58:10167d-f

TITLE: Addition reactions of heterocyclic compounds. XIV. The pyrolysis and hydrolysis of tetramethyl 3a,7a-dihydro-1-methylindole-2,3,3a,4-tetracarboxylate

AUTHOR(S): Acheson, R. M.; Vernon, J. M.

CORPORATE SOURCE: Univ. Oxford, UK

SOURCE: Journal of the Chemical Society, Abstracts (**1963**) 1907-13
CODEN: JCSAAZ; ISSN: 0590-9791

DOCUMENT TYPE: Journal

LANGUAGE: Unavailable

GI For diagram(s), see printed CA Issue.

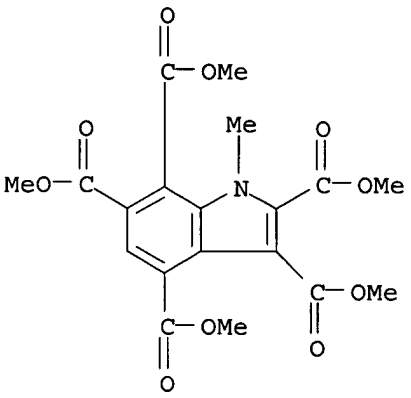
AB Pyrolysis of III with Pd-C gave trimethyl 1-methylindole-2,3,4-tricarboxylate (IV) and V, the latter through a 1,2-shift of the angular ester group; pyrolysis in Ph_2O gave tetramethyl 1-methylindole-2,3,6,7-tetracarboxylate and trimethyl 1-methylpyrrole-2,3,4-tricarboxylate. Alkaline hydrolysis of III and treatment with CH_2N_2 gave trimethyl 6,7-dihydro-1-methylindole-2,3,4-tricarboxylate which was oxidized to (IV) and with dimethyl acetylenedicarboxylate gave a mixture of 1-methylindoletetra- and pentacarboxylic esters.

IT **95428-37-8**, Indole-2,3,4,6,7-pentacarboxylic acid, 1-methyl-, pentamethyl ester
(preparation of)

RN 95428-37-8 CAPLUS

CN Indole-2,3,4,6,7-pentacarboxylic acid, 1-methyl-, pentamethyl ester (7CI)

(CA INDEX NAME)



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